

Title: US-10-615-383A-7\_COPY\_252\_1895  
 Perfect score: 1644  
 Sequence: 1 gagaat acagt acaagacgt . . . . . act tgcct cct gaaaaaact 1644

RESULT 3  
 ABN93014

ID ABN93014 standard; DNA; 2793 BP.  
 XX  
 AC ABN93014;  
 XX  
 DT 24-JUL-2002 (first entry)  
 XX  
 DE Staphylococcus epidermidis ORF nucleic acid sequence SEQ ID NO: 2477.  
 XX  
 KW Staphylococcus epidermidis; open reading frame; ORF; bacterial infection;  
 KW antibacterial; gene therapy; gene; ds.  
 XX  
 OS Staphylococcus epidermidis.  
 XX  
 PN US6380370- B1.  
 XX  
 PD 30-APR-2002.  
 XX  
 PF 13-AUG-1998; 98US-00134001.  
 XX  
 PR 14-AUG-1997; 97US-0055779P.  
 PR 08-NOV-1997; 97US-0064964P.  
 XX  
 PA (GENO) GENOME THERAPEUTICS CORP.  
 XX  
 PI Doucette-Stamm LA, Bush D;  
 XX  
 DR VPI; 2002-381255/41.  
 DR P-PSDB; ABP40469.  
 XX  
 PT Novel isolated nucleic acid encoding a Staphylococcus epidermidis  
 PT polypeptide, useful for diagnosing and treating bacterial infections.  
 XX  
 PS Disclosure; SEQ ID NO 2477; 267pp; English.  
 XX  
 CC ABN90538 to ABN93374 represent Staphylococcus epidermidis open reading  
 CC frame (ORF) nucleic acid sequences which encode the amino acid sequences  
 CC given in ABP35124 to ABP37960. The S. epidermidis sequences have  
 CC antibacterial activity and can be used in gene therapy. The sequences can  
 CC also be used in the diagnosis and treatment of bacterial infections,  
 CC particularly S. epidermidis infections. The sequences can be used to  
 CC screen for compounds able to interfere with the S. epidermidis life cycle  
 CC or inhibit S. epidermidis infection. N.B. The sequence data for this  
 CC patent did not form part of the printed specification, but was obtained  
 CC in electronic format directly from the USPTO web site  
 XX  
 SQ Sequence 2793 BP; 1149 A; 423 C; 497 G; 724 T; 0 U; 0 Other;

Query Match 100.0% Score 1644; DB 1; Length 2793;  
 Best Local Similarity 100.0%  
 Matches 1644; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAGAATACAGTACAAGACGTTAAAGATTGGAATATGGATGATGAATTATCAGATAGCAAT 60  
 Db 151 GAGAATACAGTACAAGACGTTAAAGATTGGAATATGGATGATGAATTATCAGATAGCAAT 210

# Untitled

Qy 61 GATCAGTCCAGTAATGAAGAAAAGATGTGTAATCAATAATAGTCAGTCAATAAACACC 120

Db 211 GATCAGTCCAGTAATGAAGAAAAGATGTGTAATCAATAATAGTCAGTCAATAAACACC 270

Qy 121 GATGATGATAAOC AAAATAAAAAAGAAGAAAAGATAGCAACGATGCCATAGAAAATCGC 180

Db 271 GATGATGATAAOC AAAATAAAAAAGAAGAAAAGATAGCAACGATGCCATAGAAAATCGC 330

Qy 181 TCTAAAGATATAACACAGTCAACAACAAATGTAGATGAAAAOGAAGCAACATTTTTACAA 240

Db 331 TCTAAAGATATAACACAGTCAACAACAAATGTAGATGAAAAOGAAGCAACATTTTTACAA 390

Qy 241 AAGACCCCTCAAGATAATACTCAGCTTAAAGAGAGAGTGTAAGAAACCCCTCATCAGTC 300

Db 391 AAGACCCCTCAAGATAATACTCAGCTTAAAGAGAGAGTGTAAGAAACCCCTCATCAGTC 450

Qy 301 GAATCCTCAAATTCATCAATGGATACTGOC CAACAACCATCTCATACAACAATAAATAGT 360

Db 451 GAATCCTCAAATTCATCAATGGATACTGOC CAACAACCATCTCATACAACAATAAATAGT 510

Qy 361 GAAGCATCTATTCAAAACAAGTGATAATGAAGAAAATTCCCGCTATCAGATTTTGCTAAC 420

Db 511 GAAGCATCTATTCAAAACAAGTGATAATGAAGAAAATTCCCGCTATCAGATTTTGCTAAC 570

Qy 421 TCTAAAAATAATAGAGAGTAACACTGAATCCAATAAAGAGAGAAATACTATAGACCAACCT 480

Db 571 TCTAAAAATAATAGAGAGTAACACTGAATCCAATAAAGAGAGAAATACTATAGACCAACCT 630

Qy 481 AACAAAGTAAGAGAAGATTCAATAACAAGTCAACCGTCTAGCTATAAAAAATATAGATGAA 540

Db 631 AACAAAGTAAGAGAAGATTCAATAACAAGTCAACCGTCTAGCTATAAAAAATATAGATGAA 690

Qy 541 AAAATTTCAAATCAAGATGAGTTATTAATTTACCAATAAATGAATATGAAAATTAAGGTT 600

Db 691 AAAATTTCAAATCAAGATGAGTTATTAATTTACCAATAAATGAATATGAAAATTAAGGTT 750

Qy 601 AGAOCGTTATCTACAACATCTGOC CAACCATCGAGTAAGCGTGTAACCGTAAATCAATTA 660

Db 751 AGAOCGTTATCTACAACATCTGOC CAACCATCGAGTAAGCGTGTAACCGTAAATCAATTA 810

Qy 661 GCGGCAGAACAAAGGTTGGAATGTTAATCATTTAATTAAGGTAAGTACTGATCAAAGTATTACT 720

Db 811 GCGGCAGAACAAAGGTTGGAATGTTAATCATTTAATTAAGGTAAGTACTGATCAAAGTATTACT 870

Qy 721 GAAGGATATGATGATAGTGATGGTATTATTAAGCACATGATGCTGAAAACCTTAATCTAT 780

Db 871 GAAGGATATGATGATAGTGATGGTATTATTAAGCACATGATGCTGAAAACCTTAATCTAT 930

Qy 781 GATGTAACTTTTGAAGTAGATGATAAAGTGAAATCTGGTGATACGATGACAGTGAAATATA 840

Db 931 GATGTAACTTTTGAAGTAGATGATAAAGTGAAATCTGGTGATACGATGACAGTGAAATATA 990

Qy 841 GATAAGAATACAGITTCATCAGATTTAACCGATAGTTTTGCAATACCAAAAAATAAAGAT 900

Db 991 GATAAGAATACAGITTCATCAGATTTAACCGATAGTTTTGCAATACCAAAAAATAAAGAT 1050

Qy 901 AATTCTGGAGAAATCATCGCTACAGGTAAGTATGACACACAAAATAACAAATTAACCTAC 960

Db 1051 AATTCTGGAGAAATCATCGCTACAGGTAAGTATGACACACAAAATAACAAATTAACCTAC 1110

Qy 961 ACTTTTACAGATTATGTAGATAAAATATGAAAATATTAAAGGCGCAOCTTAAATTAACATCA 1020

Db 1111 ACTTTTACAGATTATGTAGATAAAATATGAAAATATTAAAGGCGCAOCTTAAATTAACATCA 1170

# Untitled

Qy	1021	TACATTGATAAATCAAAGGTTCCAAATAATAACACTAAGTTAGATGTAGAATATAAGACG	1080
Db	1171	TACATTGATAAATCAAAGGTTCCAAATAATAACACTAAGTTAGATGTAGAATATAAGACG	1230
Qy	1081	GGCCTTTTCATCAGTAAATAAAACAATTACGGTTGAATATCAAAAACCTAACGAAAATCGG	1140
Db	1231	GGCCTTTTCATCAGTAAATAAAACAATTACGGTTGAATATCAAAAACCTAACGAAAATCGG	1290
Qy	1141	ACTGCTAACCTTCAAAGTATGTTCAAAACATAGATACGAAAACCATACAGTTGAGCAA	1200
Db	1291	ACTGCTAACCTTCAAAGTATGTTCAAAACATAGATACGAAAACCATACAGTTGAGCAA	1350
Qy	1201	ACGATTTATATTAAOCTCTTGTTATTGAGCCAAAGAAACAAATGTAAATATTTGAGGG	1260
Db	1351	ACGATTTATATTAAOCTCTTGTTATTGAGCCAAAGAAACAAATGTAAATATTTGAGGG	1410
Qy	1261	AATGGGATGAAGGTTCAACAATTATCGAGATAGTACAATCATTAAAGTTTATAAGGTT	1320
Db	1411	AATGGGATGAAGGTTCAACAATTATCGAGATAGTACAATCATTAAAGTTTATAAGGTT	1470
Qy	1321	GGAGATAATCAAAATTTACAGATAGTAACAGAAATTTATGATTACAGTGAATATGAAGAT	1380
Db	1471	GGAGATAATCAAAATTTACAGATAGTAACAGAAATTTATGATTACAGTGAATATGAAGAT	1530
Qy	1381	GTACACAAATGATGATTATGCCAAATTAGGAAATAATAATGACGTGAATATTAATTTTGGT	1440
Db	1531	GTACACAAATGATGATTATGCCAAATTAGGAAATAATAATGACGTGAATATTAATTTTGGT	1590
Qy	1441	AATATAGATTCAOCATATATTATTAAAGTTATTAGTAAATATGAOCTAATAAGGACGAT	1500
Db	1591	AATATAGATTCAOCATATATTATTAAAGTTATTAGTAAATATGAOCTAATAAGGACGAT	1650
Qy	1501	TACAOCAGATACAGCAAACCTGTGACAATGCAAAOGACTATAAATGAGTATACTGGTGAG	1560
Db	1651	TACAOCAGATACAGCAAACCTGTGACAATGCAAAOGACTATAAATGAGTATACTGGTGAG	1710
Qy	1561	TTTAGAACAGCATOCTATGATAATACAATTGCTTTCTCTACAAGTTCAGGTCAAGGACAA	1620
Db	1711	TTTAGAACAGCATOCTATGATAATACAATTGCTTTCTCTACAAGTTCAGGTCAAGGACAA	1770
Qy	1621	GGTGACTTGCTCTCTGAAAAAACT	1644
Db	1771	GGTGACTTGCTCTCTGAAAAAACT	1794

Title: US-10-615-383A-7  
 Perfect score: 2976  
 Sequence: 1 atattgcaaaaaagacttat.....ccaacaaatataaggtgttg 2976

## RESULT 4

US-09-134-001C-2477  
 : Sequence 2477, Application US/09134001C  
 : Patent No. 6380370  
 : GENERAL INFORMATION:  
 : APPLICANT: Lynn Doucette-Stamm et al  
 : TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO  
 STAPHYLOCOCCUS  
 : TITLE OF INVENTION: EPIDERMIS FOR DIAGNOSTICS AND THERAPEUTICS  
 : FILE REFERENCE: GTC-007  
 : CURRENT APPLICATION NUMBER: US/09/134,001C  
 : CURRENT FILING DATE: 1998-08-13  
 : PRIOR APPLICATION NUMBER: US 60/064,964

# Untitled

PRI OR FILING DATE: 1997-11-08  
 PRI OR APPLI CATION NUMBER: US 60/055,779  
 PRI OR FILING DATE: 1997-08-14  
 NUMBER OF SEQ ID NOS: 5674  
 SEQ ID NO 2477  
 LENGTH: 2793  
 TYPE: DNA  
 ORGANISM: Staphylococcus epidermidis  
 US-09-134-001C-2477

Query Match 93.8% Score 2791.4; DB 3; Length 2793;  
 Best Local Similarity 99.9%  
 Matches 2792; Conservative 0; M smatches 1; Indels 0; Gaps 0;

Qy	102	TTAAAAAAAAAATAATTTACTAACTAAAAAGAAOCTATAGCAAAATAATCCAATAAATAT	161
Db	1	TTAAAAAAAAAATAATTTACTAACTAAAAAGAAOCTATAGCAAAATAATCCAATAAATAT	60
Qy	162	GCAATTAGAAAAATTCACAGTAGGTACAGOGTCTATTGTAATAGGTGCAGCATTATTGTTT	221
Db	61	GCAATTAGAAAAATTCACAGTAGGTACAGOGTCTATTGTAATAGGTGCAACATTATTGTTT	120
Qy	222	GGTTTAGGTGCATAATGAGGCCAAAGCTGAGGAGAATACAGTACAAGACGTTAAAGATTGG	281
Db	121	GGTTTAGGTGCATAATGAGGCCAAAGCTGAGGAGAATACAGTACAAGACGTTAAAGATTGG	180
Qy	282	AATATGGATGATGAATTATCAGATAGCAATGATCAGTCCAGTAATGAAGAAAAGAAATGAT	341
Db	181	AATATGGATGATGAATTATCAGATAGCAATGATCAGTCCAGTAATGAAGAAAAGAAATGAT	240
Qy	342	GTAATCAATAATAGTCAGTCAATAAACACOGATGATGATAACCAAATAAAAAAGAGAA	401
Db	241	GTAATCAATAATAGTCAGTCAATAAACACOGATGATGATAACCAAATAAAAAAGAGAA	300
Qy	402	ACGAATAGCAAOGATGCCATAGAAAATGGCTCTAAAGATATAACACAGTCAACAACAAT	461
Db	301	ACGAATAGCAAOGATGCCATAGAAAATGGCTCTAAAGATATAACACAGTCAACAACAAT	360
Qy	462	GTAGATGAAAAGCAACCAATTTTTACAAAAGACOOCTCAAGATAATACTCAGCTTAAA	521
Db	361	GTAGATGAAAAGCAACCAATTTTTACAAAAGACOOCTCAAGATAATACTCAGCTTAAA	420
Qy	522	GAAGAAGTGGTAAAAAGAAOOCCTCATCAGTGGAAATGCTCAAATTCATCAATGGATACTGCC	581
Db	421	GAAGAAGTGGTAAAAAGAAOOCCTCATCAGTGGAAATGCTCAAATTCATCAATGGATACTGCC	480
Qy	582	CAACAACCATCTCATACAACAATAATAGTGAAGCATCTATTCAAACAAGTGATAATGAA	641
Db	481	CAACAACCATCTCATACAACAATAATAGTGAAGCATCTATTCAAACAAGTGATAATGAA	540
Qy	642	GAAAAATCCCGGTATCAGATTTTGCTAACTCTAAAAATAAGAGAGTAACTGAAATCC	701
Db	541	GAAAAATCCCGGTATCAGATTTTGCTAACTCTAAAAATAAGAGAGTAACTGAAATCC	600
Qy	702	AATAAGAGAGAGAATACTATAGAGCAAOCTAACAAAGTAAGAGAAGATTCAATAACAAGT	761
Db	601	AATAAGAGAGAGAATACTATAGAGCAAOCTAACAAAGTAAGAGAAGATTCAATAACAAGT	660
Qy	762	CAACCGTCTAGCTATAAAAAATATAGATGAAAAATTTCAAATCAAGATGAGTTATTAAAT	821
Db	661	CAACCGTCTAGCTATAAAAAATATAGATGAAAAATTTCAAATCAAGATGAGTTATTAAAT	720
Qy	822	TTACCAATAAATGAATATGAAAAAAGGTAGACGGTATCTACAACATCTGCCAACCA	881

# Untitled

Db 721 TTACCAATAAATGAATATGAAATAAAGGTAGACGGTATCTACAACATCTGCCAAOCCA 780

Qy 882 TCGAGTAAGCGTGTAAOOGTAAATCAATTAGCGGCAGAACAAAGGTTGSAATGTTAATCAT 941

Db 781 TCGAGTAAGCGTGTAAOOGTAAATCAATTAGCGGCAGAACAAAGGTTGSAATGTTAATCAT 840

Qy 942 TTAATTTAAAGTTACTGATCAAAGTATTACTGAAGGATATGATGATAGTGATGGTATTATT 1001

Db 841 TTAATTTAAAGTTACTGATCAAAGTATTACTGAAGGATATGATGATAGTGATGGTATTATT 900

Qy 1002 AAAGCACATGATGCTGAAAACCTAATCTATGATGTAACTTTTGAAGTAGATGATAAGGTG 1061

Db 901 AAAGCACATGATGCTGAAAACCTAATCTATGATGTAACTTTTGAAGTAGATGATAAGGTG 960

Qy 1062 AAATCTGGTGATACGATGACAGTGAATATAGATAAGAAACAGTTCATCAGATTTAACC 1121

Db 961 AAATCTGGTGATACGATGACAGTGAATATAGATAAGAAACAGTTCATCAGATTTAACC 1020

Qy 1122 GATAGITTTTGCATACCAAAAAATAAAAGATAATTCTGAGAAATCATCGCTACAGGTAAT 1181

Db 1021 GATAGITTTTGCATACCAAAAAATAAAAGATAATTCTGAGAAATCATCGCTACAGGTAAT 1080

Qy 1182 TATGACAAACAAAAATAAACAAATTACCTACACTTTTACAGATTATGTAGATAAATATGAA 1241

Db 1081 TATGACAAACAAAAATAAACAAATTACCTACACTTTTACAGATTATGTAGATAAATATGAA 1140

Qy 1242 AATATTTAAAGGCGACCTTAAATTAACATCATACATTGATAAATCAAAGGTTCAAAATAT 1301

Db 1141 AATATTTAAAGGCGACCTTAAATTAACATCATACATTGATAAATCAAAGGTTCAAAATAT 1200

Qy 1302 AACACTAAGITTAGATGTAGAATATAGAAGGCGCTTTCATCAGTAAATAAAACAATTAAG 1361

Db 1201 AACACTAAGITTAGATGTAGAATATAGAAGGCGCTTTCATCAGTAAATAAAACAATTAAG 1260

Qy 1362 GTTGAATATCAAAAAOCTAAAGGAAATGCGACTGCTAAOCTTCAAAGTATGTTCAACAA 1421

Db 1261 GTTGAATATCAAAAAOCTAAAGGAAATGCGACTGCTAAOCTTCAAAGTATGTTCAACAA 1320

Qy 1422 ATAGATACGAAAAOCTACAGTTGAGCAAAAGATTTATATTAAGGCTTCTGTTATTCA 1481

Db 1321 ATAGATACGAAAAOCTACAGTTGAGCAAAAGATTTATATTAAGGCTTCTGTTATTCA 1380

Qy 1482 GCCAAAGAAACAAATGTAATATTTTCAAGGAAATGGGATGAAGGTTCAACAATTAAGG 1541

Db 1381 GCCAAAGAAACAAATGTAATATTTTCAAGGAAATGGGATGAAGGTTCAACAATTAAGG 1440

Qy 1542 GATAGTACAATCATTAAAGTTTATAAGGTTGGAGATAATCAAAATTTAACCAGATAGTAAC 1601

Db 1441 GATAGTACAATCATTAAAGTTTATAAGGTTGGAGATAATCAAAATTTAACCAGATAGTAAC 1500

Qy 1602 AGAATTTTATGATTACAGTGAATATGAAGATGTCACAAATGATGATTATGCCAATTAGGA 1661

Db 1501 AGAATTTTATGATTACAGTGAATATGAAGATGTCACAAATGATGATTATGCCAATTAGGA 1560

Qy 1662 AATAAATGAAGTGAATATTAATTTTGGTAATATAGATTCAACATATATTATTAAAGTT 1721

Db 1561 AATAAATGAAGTGAATATTAATTTTGGTAATATAGATTCAACATATATTATTAAAGTT 1620

Qy 1722 ATTAGTAAATATGAOCTAATAAGGAGGATTACAAGAGATACAGCAAACTGTGACAATG 1781

Db 1621 ATTAGTAAATATGAOCTAATAAGGAGGATTACAAGAGATACAGCAAACTGTGACAATG 1680

# Untitled

Qy	1782	CAAAO GACTATAAATGAGTATACTGGTGAGITTTAGAACAGCATOCTATGATAATACAATT	1841
Db	1681	CAAAO GACTATAAATGAGTATACTGGTGAGITTTAGAACAGCATOCTATGATAATACAATT	1740
Qy	1842	GCTTTCTCTACAAGITTCAGGTCAAGGACAAGGTGACTTGCCTOCTGAAAAAAGCTTATAAA	1901
Db	1741	GCTTTCTCTACAAGITTCAGGTCAAGGACAAGGTGACTTGCCTOCTGAAAAAAGCTTATAAA	1800
Qy	1902	ATCGGAGATTACGATATGGGAAGATGTAGATAAAGATGGTATTCAAATAACAATGATAAT	1961
Db	1801	ATCGGAGATTACGATATGGGAAGATGTAGATAAAGATGGTATTCAAATAACAATGATAAT	1860
Qy	1962	GAAAAAOCGCTTAGTAAATGATTGGTAACITTTGAOGTATCCTGATGGAACITTCAAAATCA	2021
Db	1861	GAAAAAOCGCTTAGTAAATGATTGGTAACITTTGAOGTATCCTGATGGAACITTCAAAATCA	1920
Qy	2022	GTGAGAACAGATGAAGAGGGGAAATATCAATTTGATGGGTTAAAAAOCGATTGACTTAT	2081
Db	1921	GTGAGAACAGATGAAGAGGGGAAATATCAATTTGATGGGTTAAAAAOCGATTGACTTAT	1980
Qy	2082	AAAATTACATTGAAAAAOCGGAAGGATATAOOGGAGCGCTTAAACATTGAGGAACAAAT	2141
Db	1981	AAAATTACATTGAAAAAOCGGAAGGATATAOOGGAGCGCTTAAACATTGAGGAACAAAT	2040
Qy	2142	OCTGCACTAGACTCAGAAGGCAATTCGTATGGTAACITTTAAOGGACAAGCATATG	2201
Db	2041	OCTGCACTAGACTCAGAAGGCAATTCGTATGGTAACITTTAAOGGACAAGCATATG	2100
Qy	2202	ACTATTGATAGCGATTTTATCAAACACCTAAATATAGCTTAGGGAAGTATGTATGGTAT	2261
Db	2101	ACTATTGATAGCGATTTTATCAAACACCTAAATATAGCTTAGGGAAGTATGTATGGTAT	2160
Qy	2262	GACACTAATAAGATGGTATTCAAGGTGATGATGAAAAAGGAATCTCTGGAGTAAAAAGTG	2321
Db	2161	GACACTAATAAGATGGTATTCAAGGTGATGATGAAAAAGGAATCTCTGGAGTAAAAAGTG	2220
Qy	2322	ACGTTAAAAAGATGAAAAOCGAAATATCATTAGTACAACAACAAGTATGAAAAAGG	2381
Db	2221	ACGTTAAAAAGATGAAAAOCGAAATATCATTAGTACAACAACAAGTATGAAAAAGG	2280
Qy	2382	TATCAATTTGATAATTTAAATAGTGGTAATTATATTGTTCAATTTGATAAAOCCTCAGGT	2441
Db	2281	TATCAATTTGATAATTTAAATAGTGGTAATTATATTGTTCAATTTGATAAAOCCTCAGGT	2340
Qy	2442	ATGACTCAAAACAACAAGATTCTGGTGATGATGAOGAACAGGATGCTGATGGGGAAGAA	2501
Db	2341	ATGACTCAAAACAACAAGATTCTGGTGATGATGAOGAACAGGATGCTGATGGGGAAGAA	2400
Qy	2502	GTCCATGTAAACAATTACTGATCATGATGACTTTAGTATAGATAAOCGACTACTATGATGAC	2561
Db	2401	GTCCATGTAAACAATTACTGATCATGATGACTTTAGTATAGATAAOCGACTACTATGATGAC	2460
Qy	2562	GACTCAGATTGAGATAGTGATTGAGACTCAGATAGOGAOCGACTCAGACTCCGATAGOGAT	2621
Db	2461	GACTCAGATTGAGATAGTGATTGAGACTCAGATAGOGAOCGACTCAGACTCCGATAGOGAT	2520
Qy	2622	TCOGACTCAGACAGOGACTCAGATTCCGATAGTGATTGAGATTGACACAGTGACTCAGAC	2681
Db	2521	TCOGACTCAGACAGOGACTCAGATTCCGATAGTGATTGAGATTGACACAGTGACTCAGAC	2580
Qy	2682	TCAGATAGTGATTGAGATTGACACAGOGATTTCOGACTCAGACAGTGACTCAGGATTAGAC	2741
Db	2581	TCAGATAGTGATTGAGATTGACACAGOGATTTCOGACTCAGACAGTGACTCAGGATTAGAC	2640

# Untitled

Qy 2742 AATAGCTCAGATAAGAATACAAAAGATAAAATTACCGGATACAGGAGCTAATGAAGATCAT 2801  
 Db 2641 AATAGCTCAGATAAGAATACAAAAGATAAAATTACCGGATACAGGAGCTAATGAAGATCAT 2700  
 Qy 2802 GATTCTAAAGGCACATTACTTGGAGCTTTATTTGCAGGTTTAGGAGCGTATTATTAGGG 2861  
 Db 2701 GATTCTAAAGGCACATTACTTGGAGCTTTATTTGCAGGTTTAGGAGCGTATTATTAGGG 2760  
 Qy 2862 AAGCGTGGCAAAAATAGAAAAAATAAAATTAA 2894  
 Db 2761 AAGCGTGGCAAAAATAGAAAAAATAAAATTAA 2793

Title: US-10-615-383A-10  
 Perfect score: 4824  
 Sequence: 1 LKKNNLLTKKKPI ANKSNKY.....FAGLGALLLGKRRKNRKNKN 930

## RESULT 3 ABP40469

ID ABP40469 standard; protein; 930 AA.  
 XX  
 AC ABP40469;  
 XX  
 DT 24-JUL-2002 (first entry)  
 XX  
 DE Staphylococcus epidermidis ORF amino acid sequence SEQ ID NO:5314.  
 XX  
 KW Staphylococcus epidermidis; open reading frame; ORF; bacterial infection;  
 KW antibacterial; gene therapy.  
 XX  
 OS Staphylococcus epidermidis.  
 XX  
 PN US6380370-B1.  
 XX  
 PD 30-APR-2002.  
 XX  
 PF 13-AUG-1998; 98US-00134001.  
 XX  
 PR 14-AUG-1997; 97US-0055779P.  
 PR 08-NOV-1997; 97US-0064964P.  
 XX  
 PA (GENO) GENOME THERAPEUTICS CORP.  
 XX  
 PI Doucette-Stamm LA, Bush D;  
 XX  
 DR WPI; 2002-381255/41.  
 DR N-PSDB; ABN93014.  
 XX  
 PT Novel isolated nucleic acid encoding a Staphylococcus epidermis  
 PT polypeptide, useful for diagnosing and treating bacterial infections.  
 XX  
 PS Disclosure; SEQ ID NO 5314; 267pp; English.  
 XX  
 CC ABN90538 to ABN93374 represent Staphylococcus epidermidis open reading  
 CC frame (ORF) nucleic acid sequences which encode the amino acid sequences  
 CC given in ABP35124 to ABP37960. The S. epidermidis sequences have  
 CC antibacterial activity and can be used in gene therapy. The sequences can  
 CC also be used in the diagnosis and treatment of bacterial infections.  
 CC particularly S. epidermidis infections. The sequences can be used to  
 CC screen for compounds able to interfere with the S. epidermidis life cycle  
 CC or inhibit S. epidermidis infection. N.B. The sequence data for this  
 CC patent did not form part of the printed specification, but was obtained

CC in electronic format directly from the USPTO web site

XX

SQ Sequence 930 AA;

Query Match 99.9% Score 4820; DB 1; Length 930;  
Best Local Similarity 99.9%  
Matches 929; Conservative 0; M smatches 1; Indels 0; Gaps 0;

Qy	1	LKKNNLLTKKKPI ANKSNKYAI RKFTVGTASI VI GAALLFGLGHNEAKAEENTVQDVKDS	60
Db	1	LKKNNLLTKKKPI ANKSNKYAI RKFTVGTASI VI GATLLFGLGHNEAKAEENTVQDVKDS	60
Qy	61	NVDELSDSNQSSNEEKNDVI NNSQSI NTDDNQI KKEETNSNDI ENRSKI TQSTTN	120
Db	61	NVDELSDSNQSSNEEKNDVI NNSQSI NTDDNQI KKEETNSNDI ENRSKI TQSTTN	120
Qy	121	VDENATFLQKTPQDNTQLKEEVKPESSVESSNSSMOTACQPSHTTI NSEASI QTSUNE	180
Db	121	VDENATFLQKTPQDNTQLKEEVKPESSVESSNSSMOTACQPSHTTI NSEASI QTSUNE	180
Qy	181	ENSRVSDFANSKI I ESNTESNKEENTI EQPNKVPREDSI TSQSPSYKNI DEKI SNQDELLN	240
Db	181	ENSRVSDFANSKI I ESNTESNKEENTI EQPNKVPREDSI TSQSPSYKNI DEKI SNQDELLN	240
Qy	241	LPI NEYENKVRPLSTTSACQSSKRVTVNQLAAEQGSNVNHLI KVTDCSI TEGYDSDGI	300
Db	241	LPI NEYENKVRPLSTTSACQSSKRVTVNQLAAEQGSNVNHLI KVTDCSI TEGYDSDGI	300
Qy	301	KAHDAENLI YDVFVDDKVKSGDTMIVNI DKNTVPSDLTDSFAI PKI KDNSEI I ATGT	360
Db	301	KAHDAENLI YDVFVDDKVKSGDTMIVNI DKNTVPSDLTDSFAI PKI KDNSEI I ATGT	360
Qy	361	YDNTNKQ TYTFTDYVDKYENI KAHKLTSYI DSKKVPNNNTKLDVEYKTALSSVNKTI T	420
Db	361	YDNTNKQ TYTFTDYVDKYENI KAHKLTSYI DSKKVPNNNTKLDVEYKTALSSVNKTI T	420
Qy	421	VEYQKPENRNTALQSMFTNI DTKNHTVEQTI YI NPLRYSAKETNVI SGNDEGSTI I D	480
Db	421	VEYQKPENRNTALQSMFTNI DTKNHTVEQTI YI NPLRYSAKETNVI SGNDEGSTI I D	480
Qy	481	DSTI I KVKYGVGNQLPDSNRI YDYSEYEDVTNDDYACLGNNDVNI NFGNI DSPYI I KV	540
Db	481	DSTI I KVKYGVGNQLPDSNRI YDYSEYEDVTNDDYACLGNNDVNI NFGNI DSPYI I KV	540
Qy	541	SKYDPNKDDYTTI QQTVTMQTTI NEYTGEFRITASYDNTI AFSTSSGCGGDLPEPKTYK	600
Db	541	SKYDPNKDDYTTI QQTVTMQTTI NEYTGEFRITASYDNTI AFSTSSGCGGDLPEPKTYK	600
Qy	601	GDYVWEDVDKGI QNTNDNEKPLSNVLVLTYPDGTSSKSVRTDEEGKYQFDGLKNGLTY	660
Db	601	GDYVWEDVDKGI QNTNDNEKPLSNVLVLTYPDGTSSKSVRTDEEGKYQFDGLKNGLTY	660
Qy	661	KI TFTEPEGYPTLKHSGTNPALDSEGNVWVTI NGQDDMTI DSGFYQTPKYSLGNVWV	720
Db	661	KI TFTEPEGYPTLKHSGTNPALDSEGNVWVTI NGQDDMTI DSGFYQTPKYSLGNVWV	720
Qy	721	DTNKGI QQDDEKI SGKVTLKDENGNI I STTTTDENGKYQFDNLNSGNYI VHFDPKSG	780
Db	721	DTNKGI QQDDEKI SGKVTLKDENGNI I STTTTDENGKYQFDNLNSGNYI VHFDPKSG	780
Qy	781	MTQTITDSGDDDEQADGEEVHTI TDHDDFSI DNGYVDDSDSDSDSDSDSDSDSDSD	840
Db	781	MTQTITDSGDDDEQADGEEVHTI TDHDDFSI DNGYVDDSDSDSDSDSDSDSDSDSD	840



Untitled

Qy 841 SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSGLDNSSDKNTKDKLPDTGANEDH 900  
Db 841 SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSGLDNSSDKNTKDKLPDTGANEDH 900

Qy 901 DSKGTL LGALFAG LALL GKRRKNRKNKN 930  
Db 901 DSKGTL LGALFAG LALL GKRRKNRKNKN 930

Title: US-10-615-383A-10\_COPY\_51\_598  
Perfect score: 2808  
Sequence: 1 ENTVCQVKDSNMDELSDSN.....TI AFSTSSGCGGDLPEKT 548

#### RESULT 4

ABP40469  
ID ABP40469 standard; protein; 930 AA.  
XX  
AC ABP40469;  
XX  
XX 24-JUL-2002 (first entry)  
DT  
DE Staphylococcus epidermidis ORF amino acid sequence SEQ ID NO: 5314.  
XX  
KW Staphylococcus epidermidis; open reading frame; ORF; bacterial infection;  
KW antibacterial; gene therapy.  
XX  
XX Staphylococcus epidermidis.  
XX  
PN US6380370-B1.  
XX  
XX 30-APR-2002.  
PD  
XX  
XX 13-AUG-1998; 98US-00134001.  
PF  
XX  
XX 14-AUG-1997; 97US-0055779P.  
PR 08-NOV-1997; 97US-0064964P.  
XX  
XX (GENO) GENOME THERAPEUTICS CORP.  
PA  
XX  
XX Doucette-Stamm LA, Bush D;  
PI  
XX  
XX WPI; 2002-381255/41.  
DR N-PSDB; ABN93014.  
DR  
XX  
PT Novel isolated nucleic acid encoding a Staphylococcus epidermidis  
PT polypeptide, useful for diagnosing and treating bacterial infections.  
XX  
XX Disclosure; SEQ ID NO 5314; 267pp; English.  
XX  
XX ABN90538 to ABN93374 represent Staphylococcus epidermidis open reading  
CC frame (ORF) nucleic acid sequences which encode the amino acid sequences  
CC given in ABP35124 to ABP37960. The S. epidermidis sequences have  
CC antibacterial activity and can be used in gene therapy. The sequences can  
CC also be used in the diagnosis and treatment of bacterial infections,  
CC particularly S. epidermidis infections. The sequences can be used to  
CC screen for compounds able to interfere with the S. epidermidis life cycle  
CC or inhibit S. epidermidis infection. N.B. The sequence data for this  
CC patent did not form part of the printed specification, but was obtained  
CC in electronic format directly from the USPTO web site  
XX

# Untitled

SQ Sequence 930 AA;

Query Match 100.0% Score 2808; DB 1; Length 930;  
 Best Local Similarity 100.0%  
 Matches 548; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	ENTVQDVKDSNMDELSDSNDQSSNEEKNDVI	NNSQSI	NTDDDNQI	KKEETNSNDAI	ENR	60
Db	51	ENTVQDVKDSNMDELSDSNDQSSNEEKNDVI	NNSQSI	NTDDDNQI	KKEETNSNDAI	ENR	110
Qy	61	SKDI TGSTTNVDENEATFLQKTPQDNTQLKEE	WKEPSSVESSN	SSMDTAQQP	SHTTI	NS	120
Db	111	SKDI TGSTTNVDENEATFLQKTPQDNTQLKEE	WKEPSSVESSN	SSMDTAQQP	SHTTI	NS	170
Qy	121	EASI QTSNEENSFRVDFANSKI	ESNTESNKEENTI	EOPNKVREDSI	TSQPSSYKNI	DE	180
Db	171	EASI QTSNEENSFRVDFANSKI	ESNTESNKEENTI	EOPNKVREDSI	TSQPSSYKNI	DE	230
Qy	181	KI SNQDELLNLPI NEYENKVRPLSTTSAQ	PSSKRVTVNQLAAEGGS	NVNIHLI	KVTDQSI	T	240
Db	231	KI SNQDELLNLPI NEYENKVRPLSTTSAQ	PSSKRVTVNQLAAEGGS	NVNIHLI	KVTDQSI	T	290
Qy	241	EGYDDSDGI	KAHDAENLI	YDVTFEVDDKVKSGDTMTVNI	DKNTPVSDLTDSFAI	PKI	300
Db	291	EGYDDSDGI	KAHDAENLI	YDVTFEVDDKVKSGDTMTVNI	DKNTPVSDLTDSFAI	PKI	350
Qy	301	NSGEI	ATGTVDNTNKQI	TYTFTDYVDKYENI	KAHLKLTSYI	DKSKVPNNNTKLDVEYKT	360
Db	351	NSGEI	ATGTVDNTNKQI	TYTFTDYVDKYENI	KAHLKLTSYI	DKSKVPNNNTKLDVEYKT	410
Qy	361	ALSSVNKTI	TVEYQKPENRRTANLQSMFTNI	DTKNHTVEQTI	YI	NPLRYSAKETNVNI	420
Db	411	ALSSVNKTI	TVEYQKPENRRTANLQSMFTNI	DTKNHTVEQTI	YI	NPLRYSAKETNVNI	470
Qy	421	NGDEGSTI	DDSTI	KVYKVGDNQNL	PDSNRI	YDYSEYEDVTNDDYACL	480
Db	471	NGDEGSTI	DDSTI	KVYKVGDNQNL	PDSNRI	YDYSEYEDVTNDDYACL	530
Qy	481	NI DSPYI	KVI SKYDPNKDDYTTI	QQTVTMQITI	NEYTGEFRTAS	YDNTI	540
Db	531	NI DSPYI	KVI SKYDPNKDDYTTI	QQTVTMQITI	NEYTGEFRTAS	YDNTI	590
Qy	541	GDLPPEKT	548				
Db	591	GDLPPEKT	598				